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Oreata

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kaeppler et al. )

Serial No.: 09/914,001 )

Filed: August 20, 2001 )

Title: Class II DNA  
Methyltransferases of  
*Zea mays* )

Group Art Unit: 1638

Examiner: A. Mehta

Commissioner for Patents  
Washington, D.C., 20231

Sir:

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AMENDMENT

This Amendment is being submitted in response to the Office Action mailed on September 24, 2002 in connection with the above-identified application.

IN THE CLAIMS:

1. (Amended). An isolated [and purified] DNA sequence which encodes a *Zea mays* zmet2a methyltransferase and which hybridizes to the nucleic acid sequence shown in FIG. 1A (SEQ ID NO:1) under stringent conditions, wherein said stringent conditions comprise at least one wash under conditions comprising 0.2X SSC at 65°C.

5. (Amended). A recombinant expression cassette comprising the isolated [and purified nucleic acid] DNA sequence of claim[s] 1 [or 3], a promoter sequence and a polyadenylation signal sequence, wherein the promoter sequence is operably linked to the [nucleic acid] DNA sequence and the [nucleic acid] DNA sequence is operably linked to the polyadenylation signal sequence.

11. (Amended). The transgenic plant of claim 10 wherein the transgenic plant is *Zea mays*, *Orzya sativa*, *Secale cereale*, *Triticum aestivum*, *Daucus carota*, *Brassica oleracea*, *Cucumis melo*, *Cucumis sativus*, *Latuca sativa*, *Solanum tuberosum*, *Lycopersicon esculentum*, *Phaseolus vulgaris*, [and] or *Brassica napus*.

Please add new claims 22-23 as follows: